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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,500	08/04/2006	Takaaki Miyoshi	1962.1001	9218
21171 <b>STAAS &amp; HA</b> I	7590 06/12/200 SEY LLP	EXAMINER		
SUITE 700			MULLIS, JEFFREY C	
1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			06/12/2009	PAPER

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/588,500	MIYOSHI, TAKAAKI			
Office Action Summary	Examiner	Art Unit			
	Jeffrey C. Mullis	1796			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
	VIO OET TO EVEIDE OMONITUU	0) OD THIRTY (00) BANG			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 18 Ma	av 2009				
	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-14 and 17-20</u> is/are pending in the application.					
4a) Of the above claim(s) <u>18-20</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-14 and 17</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examine	r.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)	_				
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date					
B) 🔯 Information Disclosure Statement(s) (PTO/SB/08)					
Paper No(s)/Mail Date <u>8-4-06; 8-28-08</u> . 6)  Other:					

Applicant's election without traverse of claims 1-14 and 17 and the species of triblock copolymers, polyamide 6,6 and carbon in the reply filed on 5-18-09 is acknowledged.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-14 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakagawa et al. (either US 2004/0157978 or WO 02/0094936) in view of Kusano et al. (US 5,616,652).

The primary reference '978 (equivalent to WO '936) discloses a composition containing all of applicants components (abstract). Note paragraph 105 for use of a polyamide/conductive carbon fiber masterbatch.

Kusano et al. discloses a styrenic block copolymer (SBC) having a bulk density of 0.18 or more (abstract), measured by filling a cylinder and dropping it (column 8, lines 33-44), a process which would inherently pack the material. The material may be added to thermoplastic resins such as PPO and polyamide at column 7, lines 30-69. Benefits of using the block copolymers are improved handling, high capability to absorb softener, and thorough melting upon mixing (column 2, lines 5-10). Note also that paragraphs 2 and 3 of applicant's published specification discloses that low productivity/feed rate was

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a problem known in the art at the time of the invention for blending styrenic block copolymers.

The primary reference does not disclose that the SBC used has applicants packed bulk density.

It would have been obvious to a practitioner having an ordinary skill in the art at the time of the invention to use the SBC of the secondary reference in place of the SBC of the primary reference in the expectation of advantages such as improved handling, ability to absorb softener, more thorough mixing and higher productivity, absent any showing of suspiring or unexpected results.

Claims 1-14 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kusano et al. (US 5,616,652), cited above in view of Miyoshi (US 2003/0139518).

The secondary reference, Miyoshi discloses a composition containing SBC, polyamide, conductive filler and PPO (claims 5-9) and in which a polyamide/conductive filler may be used as a masterbatch (paragraph 119).

Kusano doses not disclose any examples in which all of applicants materials are present in combination. However, the goal of Kusano is to improve other processes in which macromolecular materials are melt blended with SBC and especially those containing PPO or polyamide. Hence it would have been obvious to a practitioner having an ordinary skill in the art at the time of the invention to add the non SBC components of the secondary reference to the primary reference since doing so would improve the process of the secondary reference as desired by the primary reference absent any showing of surprising or unexpected results.

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Any inquiry concerning this communication should be directed to Jeffrey C. Mullis M-F, 9-5 pm at telephone number 571 272 1075.

Jeffrey C. Mullis Primary Examiner Art Unit 1796

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/Jeffrey C. Mullis/

Primary Examiner, Art Unit 1796